

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 October 2003 (16.10.2003)

PCT

(10) International Publication Number
WO 2003/085951 A3

(51) International Patent Classification⁷: **H05B 37/00**,
37/02, 39/00, 41/00, 41/14, G09G 1/04, H01J 31/16,
29/58, G05F 1/565, 1/571, H02H 7/00

Barrett [US/US]; 11408 Lakeshore Drive E., Carmel, IN
46033 (US). WILLIAMS, Kevin, Michael [US/US]; 6101
N. Primrose Avenue, Indianapolis, IN 46220 (US).

(21) International Application Number:
PCT/US2003/010278

(74) Agents: **TRIPOLI, Joseph, S.** et al.; c/o Thomson Li-
censing Inc., 2 Independence Way - Suite 2, Princeton, NJ
08540 (US).

(22) International Filing Date: 3 April 2003 (03.04.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/370,071 4 April 2002 (04.04.2002) US

(71) Applicant (*for all designated States except US*): **THOM-
SON LICENSING S.A.** [FR/FR]; 46, Quai A. Le Gallo,
F-92648 Boulogne (FR).

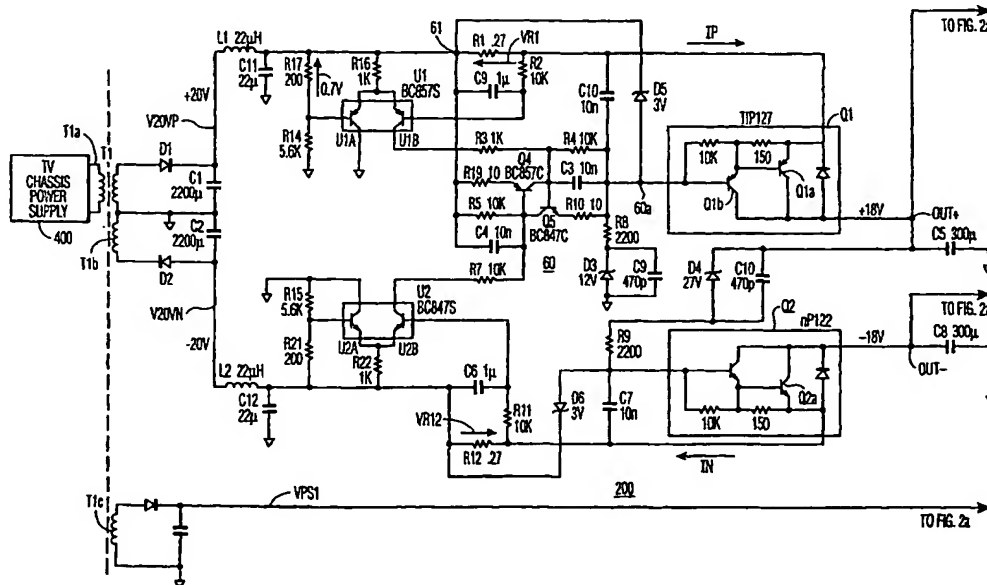
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **GEORGE, John**,

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: POWER SUPPLY PROTECTION ARRANGEMENT



(57) Abstract: In a projection television receiver, a common switch mode power supply (400) energizes the convergence circuits (610, 615, 665, 660) and other load circuits of the projection television receiver. In normal operation, a switch (Q1, Q2) couples a supply voltage produces in the common switch mode power supply to the convergence circuits. When, as a result of a fault, a supply current in the convergence circuits is excessive, the common switch mode power supply is decoupled from the convergence circuits and other load circuits remain energized and operative.

WO 2003/085951 A3



Published:

— *with international search report*

(88) Date of publication of the international search report:

11 March 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/10278

A. CLASSIFICATION OF SUBJECT MATTER		
IPC(7) : H05B 37/00, 37/02, 39/00, 41/00, 41/14; G09G 1/04; H01J 31/16, 29/58; G05F 1/565, 1/571; H02H 7/00, US CL : 315/119, 121, 122, 127, 128, 161, 164, 290, 362, 364, 382, 386, 368.11, 395-397, 408, 411; 361/57, 9 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) U.S. : Please See Continuation Sheet		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,961,032 A (Rodriguez-Cavazos) 02 October 1990 (2.10.1990), Figure 3.	1-6
A	US 4,788,591 A (Decraemer) 29 November 1988 (29.11.1988), whole document.	1-6
A	US 4,916,366 A (Wilber et al.) 10 April 1990 (10.04.1990), whole document.	1-6
A	US 3,898,522 A (Klein et al.) 05 August 1975 (05.08.1975), whole document.	1-6
A	US 4,114,072 A (Willis) 12 September 1978 (12.09.1978), whole document.	1-6
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 01 June 2003 (01.06.2003)		Date of mailing of the international search report 30 SEP 2003
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230		Authorized officer Ronald W Leja <i>Diane Smith</i> Telephone No. (703)308-2008

INTERNATIONAL SEARCH REPORT

PCT/US03/10278

Continuation of B. FIELDS SEARCHED Item 1:

315/119, 121, 122, 127, 128, 161, 164, 290, 362, 364, 382, 386, 368.11, 395-397, 408, 411; 361/57, 93.1, 93.7; 323/ 276, 277;
330/298, 51, 127, 135, 207P

WO 03/085951 A2



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.